

BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC) BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

MetalTech, Inc. 7635 West 2nd Court Hialeah, FL 33014

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County BNC-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BNC reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "Maximum Impact" 0.050" Aluminum Storm Panel Shutter

APPROVAL DOCUMENT: Drawing No. 98002, titled "0.050" Maximum Impact Storm Panel", sheets 1 through 7 of 7, prepared by Ramms Engineering, Inc., dated January 10, 1998, last revision dated 01/12/2006, signed & sealed by Robert Monsour, P.E. on 01/12/2006, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 06-0117.05 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar. P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

Helm A. Nolon Ex 09/29/2011 A

NOA No. 11-0831.04 Expiration Date: 10/22/2012 Approval Date: 09/29/2011

Page 1

MetalTech, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVALS

A. DRAWINGS

See NOA 01-0718.09

B. TESTS

See NOA 01-0718.09

C. CALCULATIONS

See NOA 01-0718.09

D. MATERIAL CERTIFICATIONS

See NOA 01-0718.09

E. STATEMENTS

See NOA 01-0718.09

F. OTHER

NOA 01-0718.09.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 04-0621.01

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

F. OTHER

1. NOA # 02-0312.08 cover page states the number of sheets incorrectly "sheets 1 through 18". This NOA #04-0621.01 is issued to revise NOA # 02-0312.08 and correct the number of sheets on the cover page to "sheets 1 through 7 of 7". This is the only change. This file is authorized by Mr. Ted Berman, P.E. with no fee.

Helmy A. Makar, P.E., M.S.

BNC, Product Control Unit Supervisor NOA No. 11-0831.04

Expiration Date: 10/22/2012

Approval Date: 09/29/2011

MetalTech, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 06-0117.05

A. DRAWINGS

1. Drawing No. 98002, titled "0.050" Maximum Impact Storm Panel", sheets 1 through 7 of 7, prepared by Ramms Engineering, Inc., dated January 10, 1998, last revision dated 01/12/2006, signed & sealed by Robert Monsour, P.E., on 01/12/06.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor analyses dated January 06, 2006, 41 pages, prepared by Ramms Engineering, Inc., signed & sealed on January 06, 2006 by Robert Monsour, P.E.

D. OUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. OUALITY ASSURANCE

1. By Miami-Dade County Building and Neighborhood Compliance Department.

E. MATERIAL CERTIFICATIONS

1. None.

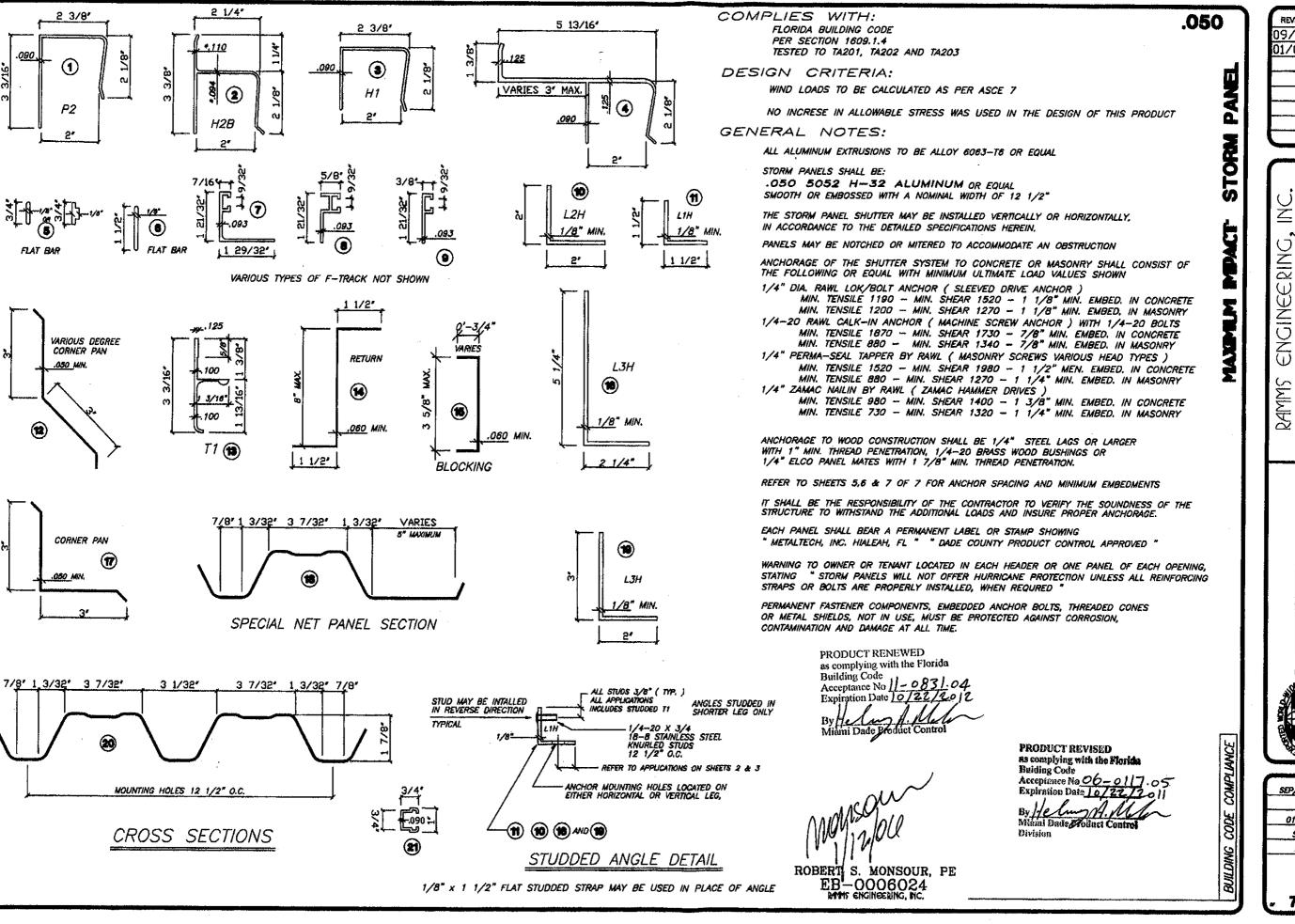
F. OTHERS

1. Letter of compliance with the Florida Building Code, 2007 Edition, issued by Ramms Engineering, Inc., dated August 22, 2011, signed and sealed by Robert S. Mansour, P.E.

Helmy A. Makar, P.E., M.S.

BNC, Product Control Unit Supervisor NOA No. 11-0831.04

Expiration Date: 10/22/2012 Approval Date: 09/29/2011

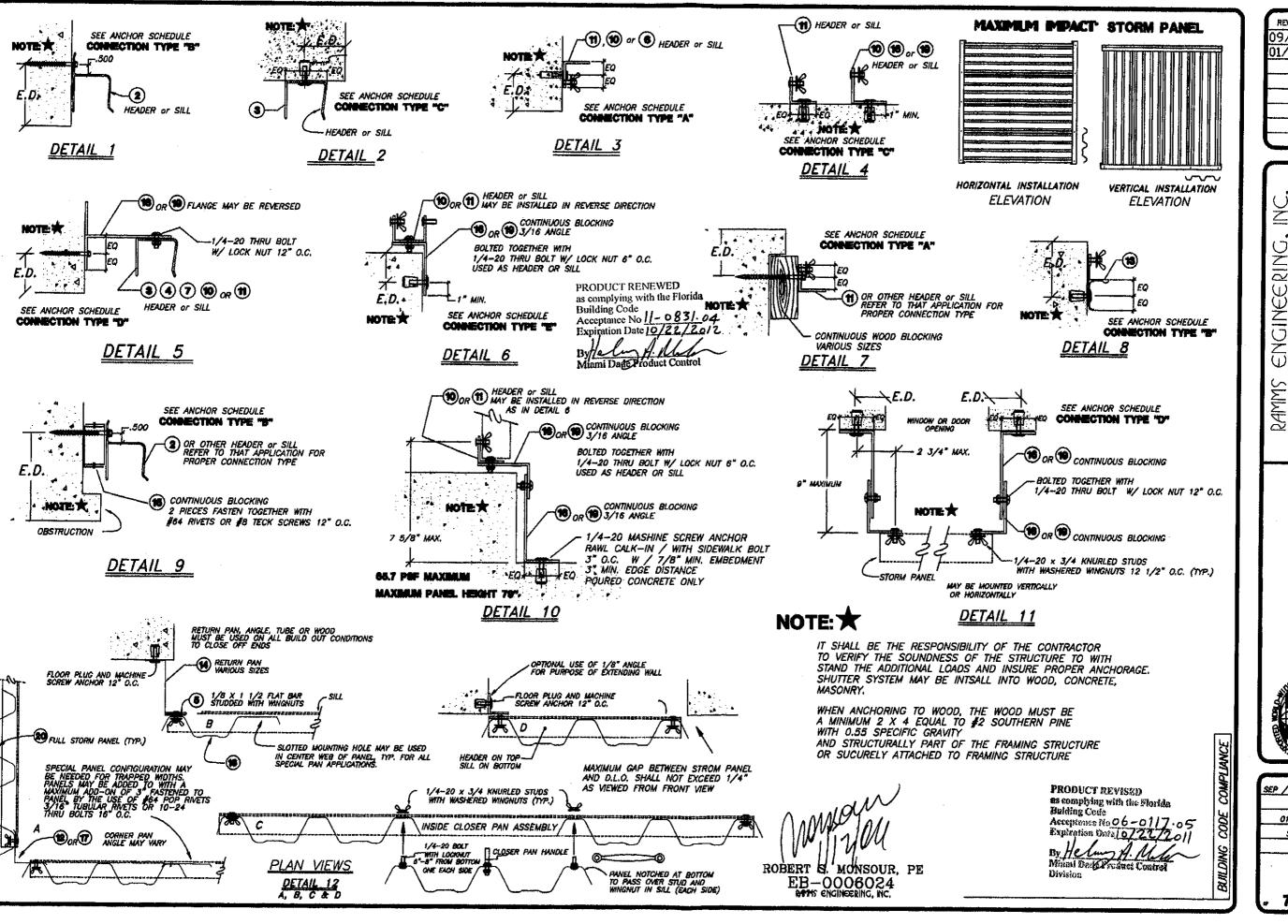


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ENGINEERIN D

INC. SETALIECH.

SEP/JRB/RSM 01/10/98 SHOWN



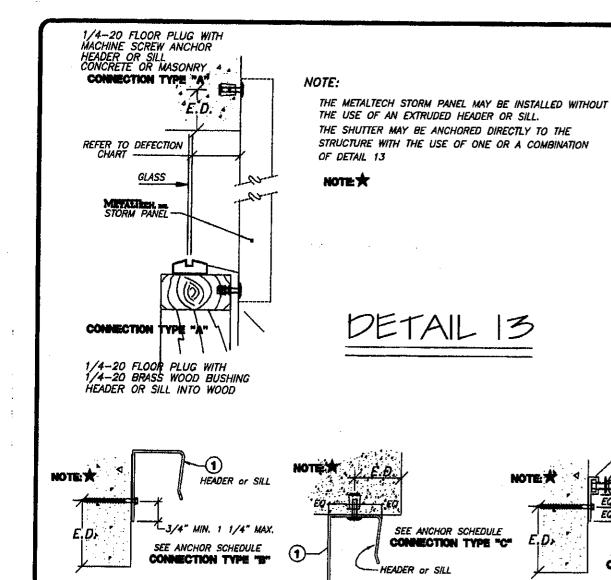
REVISIONS 09/11/98 SP 01/12/06 SP

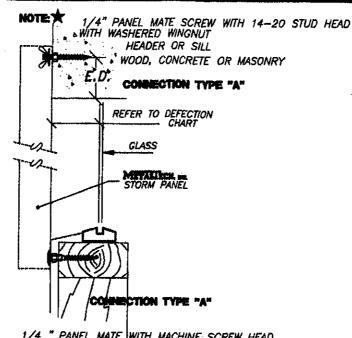
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METALIELH, INC.

SEP / JRB / RSM 01/10/98 SHOWN 98002 2

RING, ENGINEER B





1/4 " PANEL MATE WITH MACHINE SCREW HEAD WITH 14-20 SIDEWALK BOLT HEADER OR SILL

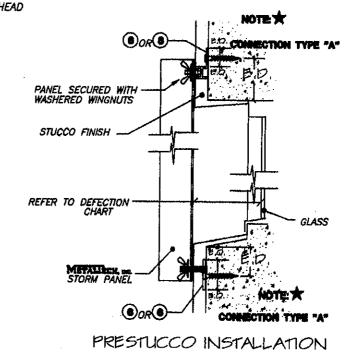
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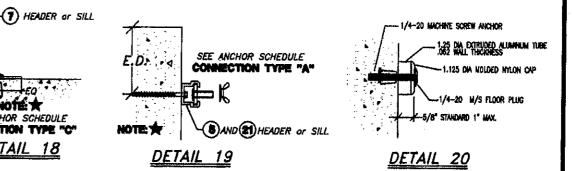
CONNECTION TYPE "C"

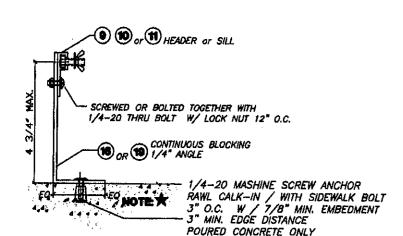
DETAIL 18

WOOD, CONCRETE OR MASONRY



DETAIL 14





DETAIL 15

59.5 PSF MAXIMUM / PANEL HEIGHT 109" MAXIMUM

DETAIL 21 ADJUSTABLE HEADER OR SILL

NOTE:★

DETAIL 16

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE TO WITH STAND THE ADDITIONAL LOADS AND INSURE PROPER ANCHORAGE. SHUTTER SYSTEM MAY BE INTSALL INTO WOOD, CONCRETE,

WHEN ANCHORING TO WOOD, THE WOOD MUST BE A MINIMUM 2 X 4 EQUAL TO #2 SOUTHERN PINE WITH 0.55 SPECIFIC GRAVITY AND STRUCTURALLY PART OF THE FRAMING STRUCTURE OR SUCURELY ATTACHED TO FRAMING STRUCTURE

SEE ANCHOR SCHEDULE

COMMECTION TYPE "A"

DETAIL 17

PRODUCT RENEWED as complying with the Florida Acceptance No 11-0831.04 Expiration Date 10/22/2012 Miami Dage Product Control

> PRODUCT REVISED as complying with the Florida Acceptosco No 06-0117.05 Expiration Date 10/22/2 Migmi Dado Product Control

Division

REVISIONS 09/11/98 SF 01/12/06 SP

A

STORM

ERIN D. ENGINE(RAMMS

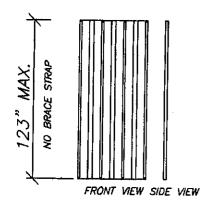
TETALIECH.

SEP / JRB / RSM 01/10/97 SHOWN 98002 3

ROBERT 6. MONSOUR, PE EB-0006024

.050 ALUMINUM MAXIMUM IMPACT STORM PANEL

HEADER AND SILL TYPE MAY VARY, DEPENDING ON APPLICATION

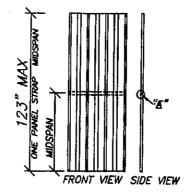


123" MAX. PANEL HEIGHT NO PANEL STRAP IS REQUIRED

PANEL DEFLECTION CHART WITHOUT HORIZONTAL STRAP

PANEL HEIGHT	0*-68"	over 68"-96"	over 96"-123"
WALL MOUNT	2 5/8"	3 5/8"	4"
INSIDE MOUNT	2 5/8"	3 5/8"	4"
BUILD OUT	2 5/8"	3 5/8"	4"

MINIMUM DISTANCE BETWEEN GLASS AND PANEL



123" MAX. PANEL HEIGHT ONE PANEL STRAP LOCATED MIDSPAN

PANEL DEFLECTION CHART WITH HORIZONTAL STRAP

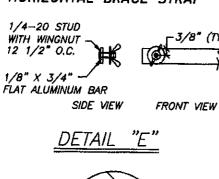
PANEL HEIGHT	0"-107"	over 107'-123'
WALL MOUNT	2 13/16"	3 3/16"
INSIDE MOUNT	2 13/16"	3 3/16"
BUILD OUT	2 13/16"	3 3/16"

MINIMUM DISTANCE BETWEEN GLASS AND PANEL

.050 ALUM

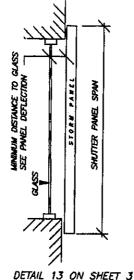
DESIGN PRESSURE	PANEL SPAN
44.40	123"
47.81	120"
51.23	117"
58.06	112"
61.47	110"
66.85	106"
71.46	102"
75.30	97"
81.45	90"
86.83	84"
91.44	80"

HORIZONTAL BRACE STRAP

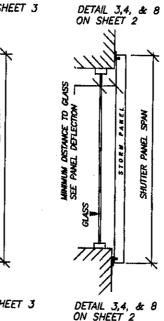


MAXIMUM GAP BETWEEN PANEL AND HEADER IS 1/4" (TYP.)

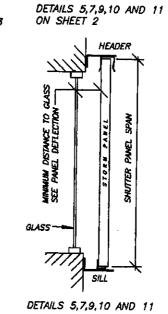
DETAIL "F"

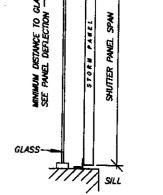


DETAIL 13 ON SHEET 3



DETAIL 1 ON SHEET 2 DETAIL 15 ON SHEET 3 HEADER GLASS SILL DETAILS 3,4 AND 8 ON SHEET 2





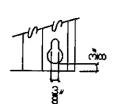
DETAIL 2 ON SHEET 2

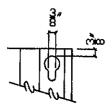
DETAIL 16 ON SHEET 3

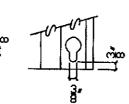
HEADER

DETAIL 4 ON SHEET 2 ON SHEET 2

INSIDE MOUNT WITH HDR. AND SILL







WALL MOUNT ANCHORING PANEL TOP & BOTTOM NO HDR. OR SILL

WALL MOUNT ANCHORING PANEL TOP & BOTTOM

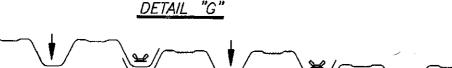
PRODUCT RENEWED

WITH STUDDED HOR/SILL

WALL MOUNT WITH HDR. AND SILL

BUILD OUT WITH HDR. AND SILL

TYPICAL SECTION VIEWS



PANELS MAY RUN CONTINUOUS BY WIDTH HORIZONTAL BRACE STRAP HEADER AND SILL

FASTENER MUST BE IN NORROW PORTION OF KEY HOLE MOUNTING HOLE MAY ALSO BE A 9/16" DIA. CIRCLE

EITHER HORIZONTALLY OF VERTICALLY

EXPLODED ASSEMBLY

as complying with the Florida **Building Code** Acceptance No 11-0831.04 Expiration Date 10/22/20/2 Miami Dade Product Control

> ROBERT S. MONSOUR, PE EB-0006024

PRODUCT REVISED as complying with the Fibrida Building Code

Tirisice:

SEP/JRB 01/10/98 BJUR SHOWN 98002

REVISIONS

09/11/98

ERING, Davig ENGINE Sucting RAMMS

> INC SETALIECH.

[ANCHOR SPACING VS DESIG	N PRESS	SURE	UP T	O 59.6 PSF	UPTO 71.5 PSF				
- 1	AND CONNECTION TYPE			POURED CONCTETE	CONCRETE BLOCK	POURED CONCTETE	CONCRETE BLOCK			
ı		_		CONECTION TYPE	CONECTION TYPE	CONECTION TYPE	CONECTION TYPE			
ŀ	ANCHOR TYPE	PANEL	E.D.	A B C D E	A B C D E	A B C D E	A B C D E			
ſ			. 3"	16 13 8 13 13	16 13 10 13 13	16 13 7 13 13	16 : 13 : 8 : 13 : 13			
	«H	68" SPAN	2"	16 13 7 13 13	16 13 8 13 13	16 13 5 13 13	16 13 6 13 13			
- 1			1 1/4*	16 13 5 13 13	16 13 6 13 13	14 13 4 13 13	14 13 4 13 13			
- 1	1/4" RAWL LOK/BOLT (SLEEVE ANCHOR) 1 1/8" MIN. EMBEDMENT 105" sp.		3"	16 13 6 13 13	16 : 13 : 7 : 13 : 13	14 : 6 : 5 : 9 : 10	14 : 6 : 6 : 9 : 10			
- 1		88" SPAN	2"	15 11 5 13 13	15 11 6 13 13	12 6 4 8 9	12 6 5 8 9			
ı			1 1/4"	13 10 4 13 13	13 : 10 : 5 : 13 : 13	11 5 3 7 8	11 5 4 7 8			
- 1		1051	3"	14 6 5 9 10	14 7 6 .9 10	11 4 4 5 4	12 : 4 : 5 : 5 : 4			
. [105" span	2"	12 6 4 8 9	12 6 5 8 9	10 4 4 5 4	10 4 4 5 4			
) , [·	1 1/4"	11 5 3 7 8	11 5 4 7 8	9 3 3 3 4	9 : 3 : 3 : 4			
ı	123" span		2"	11 4 4 5 4	12 4 5 5 4					
- 1		125 apair	1 1/4"	10 4 4 5 4	10 4 4 5 4					
ŀ			311		9 3 3 4 3	45				
- [68" SPAN	2"	16 13 7 13 13 15 13 6 13 13	13 13 6 13 13 12 12 5 12 12	15 : 13 : 6 : 13 : 13 13 : 13 : 5 : 13 : 13	.11 . 11 . 5 . 11 . 11 . 1			
.	h		1 1/4"	14 13 5 13 13	10 10 4 10 10	13 13 5 13 13 12 12 4 12 12	10 10 4 10 10 1			
-			3"	13 10 6 13 13	10 8 5 10 10	11 5 5 7 8	9 9 3 9 9 8 4 4 5 6			
	VI	88* SPAN	2"	12 9 5 12 12	9 7 4 9 9	10 5 4 6 7	7 3 3 5 5			
- 1	1/4" RAWL ZAMAC NAILIN DRIVE		1 1/4"	11 8 4 11 11	8 6 3 8 8	9 : 4 : 3 : 6 : 6	7 3 3 4 5			
	(HAMMER DRIVE)		3*	11 5 5 7 8	8 4 4 5 6	9 3 4 4 3	7 3 3 3			
	1 3/8" MIN. EMBEDMENT IN CONCRETE 1 1/4" MIN. EMBEDMENT IN BLOCK	2*	10 5 4 7 7	7 4 3 5 6	8 3 3 4 3	6 3 3 3				
			1 1/4"	9:4:3:6:7	7 : 3 : 3 : 4 : 5	8 3 3 4 3	6 3 3			
Ī		4300	3*	9 3 4 4 3	7 3 3 3					
		123" span	2"	8 3 3 4 3	6 3 3					
H	VARIOUS HEAD TYPES		1 1/4" 3"	8 : 3 : 3 : 4 : 3	6 3					
- 1		68" SPAN	2*	16 13 11 13 13 16 13 9 13 13	16 13 7 13 13	16 13 9 13 13	13 13 6 13 13			
-		30 31711	1 1/4*	16 : 13 : 9 : 13 : 13 16 : 13 : 8 : 13 : 13	14 : 13 : 6 : 13 : 13 13 : 13 : 5 : 13 : 13	16 13 8 13 13	12 12 5 12 12			
ł		•	3"	16 13 9 13 13	13 : 13 : 5 : 13 : 13 12 : 9 : 5 : 12 : 12	16 : 13 : 6 : 13 : 13 16 : 8 : 7 : 11 : 12	10 : 10 : 4 : 10 : 10			
ı	17+++++++++	88" SPAN	2×	16 13 7 13 13	11 8 4 11 11	15 7 6 10 11				
-1			1 1/4"	16 : 13 : 6 : 13 : 13	10 7 4 10 10	14 7 5 9 10	9 4 4 6 6 6			
- 1			3"	16 8 7 11 13	10 5 4 7 8	15 5 6 7 5	8 3 4 4 3			
I	(MASONRY SCREWS)	105" span	2*	16 7 6 10 12	9 4 4 6 7	13 5 5 6 5	8 3 3 4 3			
I	1/4" RAWL PERMA-SEAL TAPPER	L	1 1/4"	14 7 ; 5 ; 9 ; 10	8 : 4 : 3 : 5 : 6	12 : 4 : 4 : 5 : 4	7 3 3 3			
	1/4" ELCO PANEL MATES	1000	3*	15 5 6 7 5	8 3 4 4 3	The state of the s				
ļ	1 1/2" MIN. EMBEDMENT IN CONCRETE	123" span	2"	13 5 5 6 5	8 3 3 4 3					
H	1 1/4" MIN. EMBEDMENT IN BLOCK		1 1/4 ^q	12 : 4 : 4 : 5 : 4	7 3 3					
	<u></u>	68" SPAN	2.5"	16 13 12 13 13 16 13 10 13 13	16 13 7 13 13	16 13 10 13 13	13 13 6 13 13			
]	DO SPAN	2.5	** * * * * * * * * * * * * * * * * * * *	14 13 6 13 13	16 13 9 13 13	12 12 12 12			
			3"	16 : 13 : 8 : 13 : 13 16 : 13 : 9 : 13 : 13	13 13 5 13 13 12 9 5 12 12	16 : 13 : 7 : 13 : 13 . 16 : 10 : 8 : 13 : 13	10 : 10 : 4 : 10 : 10			
]	1/4-20 x 7/8" , 1/2" DIA.	88" SPAN	2.5"			10	10 5 4 6 7			
-	RAWL CALK-IN]	2*	16 ; 13 ; 8 ; 13 ; 13 16 ; 13 ; 6 ; 13 ; 13	11 8 5 11 11 10 7 4 10 10	16 9 / 12 13 16 8 5 11 12	8 4 3 5 6			
-	(MACHINE SCREW ANCHOR)		3"	16 10 8 13 13	10 5 4 7 8	16 6 7 8 3	8 3 4 4 3			
-	7/8" MIN. EMBEDMENT	105" span	2.5"	16 : 9 : 7 : 13 : 13	9 4 4 6 7	16 6 6 8 3	8 3 3 4 3			
ı			2"	16 8 5 11 13	8 4 3 5 6	14 5 4 7 3	7 3 3 3 3			
			3"	16 : 6 : 7 : 8 : 7	8 3 4 4 3					
ı		123" span	2.5"	16 6 6 8 6	8 3 3 4 3					
L			2"	14 5 4 7 5	7 3 3 3					

NOTES:

SPANS AND LOADS SHOWN IN THIS SCHEDULE ARE FOR DETERMINING ANCHOR SPACING ONLY. FOR ALLOWABLE SPANS VS. DESIGN LOADS REFER TO SHEET 4.

MINIMUM ENBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO AND/OR WALL FINISHES.

SHADED AREAS REPRESENT ANCHOR CONDITIONS THAT ARE NOT ACCEPTABLE.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE TO WITH STAND THE ADDITIONAL LOADS AND INSURE PROPER ANCHORAGE, SHUTTER SYSTEM MAY BE INTSALL INTO WOOD, CONCRETE OR MASONRY

> PRODUCT RENEWED as complying with the Florida Building Code
> Acceptance No //-083/. 04
> Expiration Date /0/22/20/2

Buiding Code

ROBERT S. MONSOUR, PE EB-0006024 MM/s engineering, inc.

PRODUCT REVISED as complying with the Florida Accepiance Nug 6. By Helm A. M. Misrai Dade Yorksate Control

REVISIONS 09/11/98 sp 01/06/06 SP

ENGINEERING, I Souchers Design 2100 W. 70th STREET, SUTE 311
HWEN, RUPERN 32018

S. W. SECOND CT. HALEAH, PL. 3501

SEP/JRB 01/10/98 SHOWN 98002 5

ANCHOR SPACING VS DESIGNAND CONNECTION TYP	SN FRES	SURE	-	UP TO 81.5 PSF								UPTO 91.4 PSF										
WAS COMMECTION TAB	THE COMMEDIATION LIFE					ONCIETE			CONCRETE BLOCK				POURED CONCTETE									
ANCHOR TYPE	PANEL	T				N TYPE				DNECTIO			 			CTION TYPE		CONCRETE 8LOC CONECTION TYPE				
	PANEL	E.D.	Α	В	c				В	¢	D	E	A	T B	Гс	TD	E	 				- ,
	68" SPAN	3"	15	.: 10	. 6	13			: 10	: 7	13	: 13	13	 -	: 5		11	A 42	В 7	<u> </u>	D_	
	00 01 AN	1 1/4"	.14	9	5	13]	9	6	13	: 13	12	·}·· : 6	÷ 4	∴9 8	!! 9	13	<u>/</u>	. 6	.; .9	1
4	ļ	3"	12	; <u>8</u>	4	12			. 8	4	12	12	11	5	∵ 3	∵	9	11	5	5	.;8	.1.1
1/4" RAWL LOK/BOLT (SLEEVE ANCHOR)	88" SPAN	2"	11	· · · · · · · · · · · · · · · · · · ·	5.	;6. 5	5	. 12	;5	5	: 6	5	.11	: 3	: 4	; 5	: 3	111	: 4	·	+ 7	: 8
1 1/8" MIN. EMBEDMENT	L	1 1/4"	10	4	3	5. 5	4.	. 11	4	4	5	5	. 9	3	3	4	3	10	3	4	4	.;; 3
		3*		CX COPPLEX	ON EN			10	4	: 3 ************************************	: 5	: 4	9	; 3	: 3	. 4	3	9	3	3	4	: 3
•	105" span	2*			jerasi.		1.0	all the											11,11			
	<u> </u>	1 1/4"		Part Car	and the second				177				1.4				//					
	4000	3"		- 26 - 13 16			1.00	0.0	222											CI.		
	123° span	2"					7468	4 C			de-N			1					.11	3.44		40
	 	1 1/4".	200	Said Mayor	SEA SA	LESSEN &	2010 31.10	cultival.										1177	(a) (a) (b)		os o ti	
a	68" SPAN	<u>3</u>	1.13	.; <u>₿</u>	<u> 5</u>	: 12	. 13	. 9	6	4	: 9	: 9	11	5	. 5	AND GREE	9	8				
		1 1/4"	111	÷-4	55	. 11	11	. <u> 8</u> .	. 5	4	8	8	10	5	4	7		8	4	3	6 5	(
		3"	10	: /	: 4	: 10	10	8	<u>; 5</u>	; 3	: 7	8	9	4	3	6	7	7	3	3	<u>.</u>	5
1/4" RAWL ZAMAC NAILIN DRIVE (HAMMER DRIVE) 1 3/8" MIN. EMBEDMENT IN CONCRETE 1 1/4" MIN. EMBEDMENT IN BLOCK 123" span	2"	9	3	3		4		3	. 3	÷.4	3	9	3	4	4	: Э	7		3	3		
	1 1/4"	8	: 3	3	7		6	· 🕌	3	<u>: 3</u>	3	. <u>.</u> 8:	3	3	3		6		3			
	3"									3		7		3	: 3		5					
	2"									4-5-6-7		e de la	14									
	 -	1 1/4"					in the															Œ.
	123° open	3"		March of the same						i de la companya de l	V-0110	Y.					A COLUMN					
	123 Span	2" 1 1/4"	1	A September	a de mor						9		ary in	4			40.55		λ.,			e ted
VARIOUS HEAD TYPES		3 ⁿ	16	42																		
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	88" SPAN	2"	14	5	5	::· <del>;</del> ::		8	3	3	÷- <del>4</del>	44].	14	. 4	6	. 6	4	8	3	3	3	3
		1 1/4"	12	5	4	6	5	7	3	3	4	3	12	-4	. 5	<u>5</u>	4	7.		3	3	
(MASONRY SCREWS)		3"	N. W.		W.S.	77.7	VIII TV				. 4		11	4	4	5	: 3	6 1			3	
1/4" RAWL PERMA-SEAL TAPPER	105" span	2"		,						2								100	15-15-15-15-15-15-15-15-15-15-15-15-15-1			
1/4" ELCO PANEL MATES		1 1/4" 3"						E Post	6 paras Pin		or real real											
1/2" MIN. EMBEDMENT IN CONCRETE	123" span	2"				6										24440						
1 1/4" MIN. EMBEDMENT IN BLOCK		1 1/4"		.,		200	ON	19.00	V V K									6 m 3				2. g
		3"	16	13	- 9 -	12	40															
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111.00 700		3"	16	7 :	7	' 0	_		-	3	9		16	8	5	12	13	8	4	3	5	6
1/4-20 x 7/8" , 1/2" DIA. RAWL CALK-IN	88" SPAN	2.5 ^u	16	6 :	6	8	7	8	3			4	16	5	<u>. 6</u>		. 5	. 8	3	3	3.	3
(MACHINE SCREW ANCHOR)		· 2 ^H	15 :	6 ;	4	8	6	7	3	3	4	~ <del>~</del> ~ -	13		. <del>)</del>	6	. 5	.7		3	3	
	105" span	3"							N/Y			4. 3.3			4	6	4	D B			3	
CANDEDIAICIAI		2.5"		7-1-1-1																		
}-		3" 3						22.46	A													
	123" span	2.5"	(() (, ()	No.																	5 (6)	of let
<u> </u>		2*	V:203				4					Supply 1		100								
			20-52-78	MAN TO SERVE	HEALT CO.			or other transfer	<b>以影响</b>	2020 PM		<b>数数线像</b>		700	双形的方式	()	AND THE					

#### NOTES:

SPANS AND LOADS SHOWN IN THIS SCHEDULE ARE FOR DETERMINING ANCHOR SPACING ONLY. FOR ALLOWABLE SPANS VS. DESIGN LOADS REFER TO SHEET 4.

MINIMUM ENBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO AND/OR WALL FINISHES.

SHADED AREAS REPRESENT ANCHOR CONDITIONS THAT ARE NOT ACCEPTABLE.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE TO WITH STAND THE ADDITIONAL LOADS AND INSURE PROPER ANCHORAGE. SHUTTER SYSTEM MAY BE INTSALL INTO WOOD, CONCRETE OR MASONRY.

> PRODUCT RENEWED as complying with the Florida

PRODUCT REVISED as complying with the Florida Acceptance No 06 - 0117.05 Expiration that 10/32/1011

Miani Dade Donart Control Division

CODE COMPI

SEP/JRB/RSM 01/10/98 SHOWN 98002 98002 6

ROBERT S. MONSOUR, PE EB-0006024 karris engineering, inc.

REVISIONS 09/11/98 SP 01/06/06 SP

ENGINEERING, II

Suideral Design
2110 11. 7845 STREET, SLIFE 311
HAVETAN, FLORDER X0018 RAMMS

METALIECH, INC.

## ANCHO SCHEDULE

	WOOD APPLICATIONS		<del></del>	LID TO SO S POR	T						
				UP TO 59.5 PSF	UP TO 71.5 PSF	UP TO 81.5 PSF	UP TO 91.4 PSF				
	ANCHOR TYPE	DIA.	SPAN	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE				
	mma	<del> </del>	68" SPAN		ABCDE	A B C D E					
	BRASS WOOD BUSHING	1/4-20		14 13 5 13 13	12 12 5 12 12	10 7 4 10 10	T				
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		43	68" SPAN	16 13 8 13 13	15 : 13 : 6 : 13 : 13	14 9 6 13 13	and the second of the second of the second				
	į , ,	1/4"	88" SPAN	.14 11 6 13 13	12 6 5 8 9		12 6 5 8 9				
	WOOD LAGS		105" SPAN	12 6 5 8 9	77	10 4 4 5 4	9 3 4 4 3				
!	1" MINIMUM TREAD PENETRATION	·· <u> </u>	123" SPAN	10 4 3 5 4	_10						
			68" SPAN	16 13 10 13 13	16 : 13 : 8 : 13 : 12						
:	, ,	5/16"	88" SPAN	16 13 7 13 13		16 10 7 13 13	14 7 6 9 11				
	WOOD LAGS		105" SPAN	777	.14 7 6 9 10	12 5 5 6 5	11 4 5 5 3				
- 1	1" MINIMUM TREAD PENETRATION		123" SPAN	40	12 4 5 6 4						
			68" SPAN	40 14 15 17 18	46 40						
1	<b></b>	3/8"	88" SPAN		16 13 9 13 13	16 12 8 13 13	.16 8 7 11 13				
- !	WOOD LAGS		105" SPAN	44	16 8 7 10 12	14 5 6 7 6	13 4 6 5 4				
- (	1" MINIMUM TREAD PENETRATION		123" SPAN	46	14 : 5 : 6 : 6 : 5						
- 1	111111111111111111111111111111111111111		68" SPAN								
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Ļ	1" MINIMUM TREAD PENETRATION		123" SPAN	· · · · · · · · · · · · · · · · · · ·	15 5 7 7 6						
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		1/4" ·	88" SPAN	44	15 13 6 13 13	14 9 6 13 13	12 6 5 8 9				
- [	1/4" ELCO PANEL MATES		105" SPAN	40 0		10 4 4 5 4	9 3 4 4 3				
	1 7/8" MIN. THREAD PENETRATION		123" SPAN	4.5	10 4 4 5 4						
			68" SPAN	10 4 3 5 4							
-		1/4"			15 13 6 13 13	14 9 6 13 13	12 6 5 8 9				
	1/4" ELCO PANEL MATES				12 6 5 8 9	10 4 4 5 4					
Ł	1 7/8" MIN, THREAD PENETRATION		40011 0 0 1111		10 4 4 5 4		9 3 4 4 3				
, [	VERIOUS HEAD TYPES		0011 0 0 444								
		ļ			15 13 6 13 13	14 9 6 13 13	12 6 5 8 9				
	1/4" MASONRY SCREWS	1/4"	400000000000000000000000000000000000000	14 11 6 13 13	10 6 7	10 4 4 5 4					
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-	MOITH TENETRATION		123" SPAN	10 4 3 5 4							
	MATES:										

#### NOTES:

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WHEN ANCHORING TO WOOD, THE WOOD MUST BE A MINIMUM 2 X 4 EQUAL TO #2 SOUTHERN PINE 0.55 SPECIFIC GRAVITY AND STRUCTURALLY PART OF THE FRAMING STRUCTURE OR SUCURELY ATTACHED TO FRAMING STRUCTURE

SHADED AREAS REPRESENT ANCHOR CONDITIONS THAT ARE NOT ACCEPTABLE.

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PRODUCT RENEWED as complying with the Florida Building Code Acceptance No ]] - 0831.0 4 Expiration Date 10/22/2012

PRODUCT REVISED as complying with the Florida Buiding Code Assertance No 06 - 0117 05 Englished Date 10/22/2011

By Helin A.M. Miami Deale Product Control

SEP/JRB/RSM 01/10/98 SHOWN 98002

REVISIONS 09/11/98 SP 01/06/06 SP

ENGINEERING, I

RAMIMS

ETALIECH, INC.

ROBERT S. MONSOUR, PE EB-0006024 MTMS ENGINEERING, INC.